

#### Reference customers - Australia

- Schiavello Commercial
- The Muir Electrical Company
- Austereo Pty Ltd.
- Laminex Industries
- Centari Systems
- East Gippsland Shire Council
- Catholic Development Fund
- Esprit Australia
- City of Boroondara
- Sussan Corporation Australia
- **Ecowise Environmental Pty**
- Western Water Limited
- Spalding Australia
- **HLB Mann Judd**
- Yakult Australia
- Fuchs Lubricants Pty Ltd Mushroom Music
- **Australian Sports**

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Commission

- Visa Australia
- North Shore Coaching Centre
- 7-Eleven Stores Pty Ltd.
- Breville Pty Ltd.
- Sydney Markets Limited Moore Connections Pty.
- Limited EIG - Ansvar Limited
- William Adams Pty Ltd Eurovox Pty Ltd
- Holmesglen Institute of **TAFE**
- Telstra Super Pty Ltd
- **Equity Trustees Limited**
- Queensland Government Department of Employment & Training
- Northern Melbourne Institute of TAFE

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- Metropolitan Ambulance Service
- Department of Environment
- Attorney-General's Dept

- Mortgage Data Solutions
- Australian Industrial Registry
- VicSuper Pty Ltd
- Bob Jane T-Marts Pty Ltd
- Airborne Research Australia
- AusAID
- **HGC Administrative Services**
- Sorrento Sailing Boat Club
- Department of Defence
- TechExpress IT Solutions
- GAPBuster Systems Asia Pacific Ltd.
- Absolute Data Group
- Red Bull Australia Pty Ltd
- Chanel (Australia) Pty Ltd
- The National Office for the Information Economy
- Australian Film Commission
- **Dorf Clark Industries Limited**
- The Australian Inst of Building
- Peter MacCallum Cancer Inst
- Pacific National (ACT) Ltd.
- Australian Motoring Services

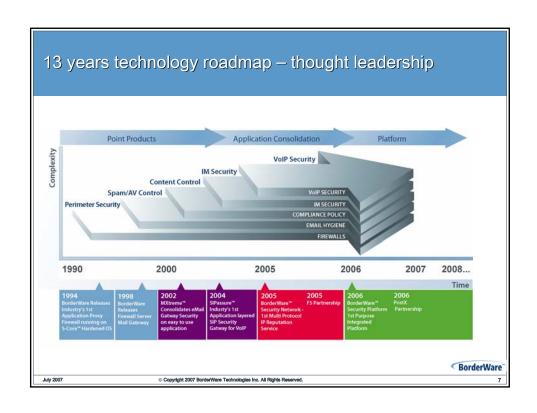
# Reference customers - Australia cont'd

- Ozemail
- City of Perth
- **AAP Communications**
- Macquarie Universit
- The Siemon Company
- MacMillan Distribution
- Animal Logic
- Department of **Environmental Protection**
- Gippsland Water Pulsat Communications
- Ozemail
- Bendigo Bank
- William Angliss TAFE Tower Life Ltd.
- Office of Indigenous
- Policy Coordination CBT Systems Australia
- Fisheries Dept of WA
- **Queensland Transport**
- Dynamic Solutions State Supply Commission
- Sprucer & Ferguson
- **BMW** Australia

- Acer Computer
- Aboriginal & Torres Strait **Islander Commission**
- Travelex Australia Pty Ltd
- Adept Business Systems
- Macquarie University APRA Ltd.
- Quik Trak Technologies
- Rudd Watts & Stone
- Austrust Tower Financial Services Local Government and
- Shires Association
- Sydney South West Area Health Service
- **Brimbank City Council** Australian Trade Commission
- Ministry of Justice
- South Australia Auditor-
- General's Department "Department of Defense Emergency Management, **DEFMIS** "

- Sloane, Duff & Associates
- Community News Group
- Flexirent Capital Pty Ltd
- Professionals in Computer
- Knowledge
- Copyright Agency
- **Dyno Industries**
- Global Doctor Services
- **CARE** Australia
- Australian Fisheries Auth
- Hatch Associates Pty. Ltd. Hamilton Brokers Pty Ltd.
- Pinnacle Software
- Australian Pesticides & Veterinary Medicines
- High Court of Australia
- Allied Telesyn International Royal College of
- Pathologists of Australasia
- City Of Melbourne
- Phoenix Corporation
- Sci-Qual International Leigh-Mardon
- Australian Pacific Touring

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#### The Threats Are Real & Current – 2005/2006

- MasterCard 40 million customer records leaked in June 2005 - case study
- Virgin Money A flood of phishing emails sent out targeting Virgin Money credit card customers in September 2005
- Chevron \$2M lawsuit from an employee "joke" email with alleged sexist content
- Health Care Company Patient records divulged
- Pharmaceutical Company Intellectual property leaked to a competitor
- Law Firm Confidential email communications compromised
- VoIP spam, vishing, DHA infancy





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#### Case study

#### External impact of inadequate security - MasterCard

In June 2005, 40 million MasterCard customer records were accidentally leaked

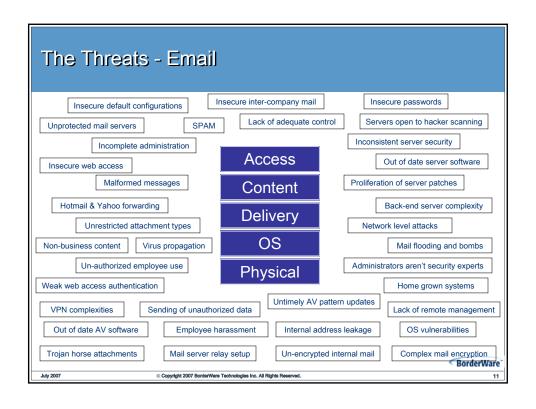
- The culprit was an outsourcing partner, CardSystem Solutions, a payment processor with only 100 employees that was the victim of a hacking attack
- Huge impact on MasterCard, whose customers saw them as at fault
- Huge impact on CardSystem Solutions, who lost all other customers
   Visa and American Express, went out of business and are now being sued for breach of security and SLA

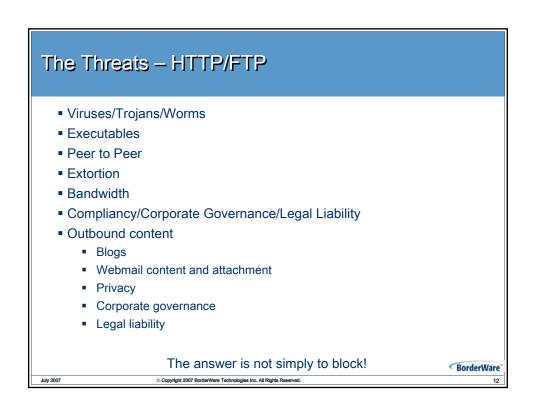
Visa commented: "after an internal and forensics review of its processing practices demonstrated that -- in violation of Visa's SLA -- it did not have the appropriate controls in place to protect cardholder information."

Legal Liability!!!

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#### The Threats - IM

- SPAM
- Malicious attachments
- Directory harvesting
- Viruses/Trojans/Worms
- Extortion
- Compliancy/Corporate Governance/Legal Liability
- Bandwidth
- Outbound content
  - Body
  - Attachment
  - Privacy
  - Corporate governance
  - Legal liability

The answer is not simply to block!

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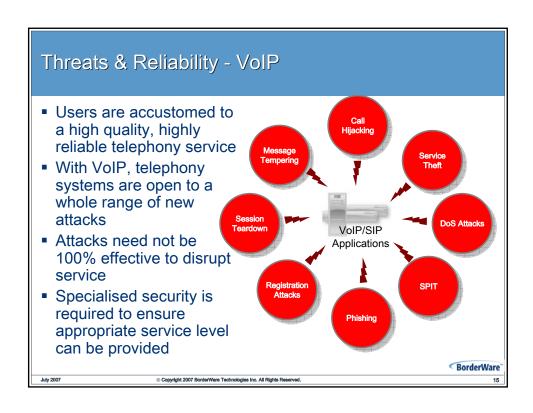
# The Threats - VolP

- Network level attacks
  - DoS Attacks
  - SYN floods
  - Ping attacks
- Protocol level attacks
  - Malformed message attacks
  - SIP DoS attacks
  - Buffer overflows
  - Bye attacks, Call Transfers, more
- Application level attacks
  - Service Theft
  - Eavesdropping
  - SPIT
  - Directory Harvesting
  - Many more

The answer is not simply to block!

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Rank	Risk	Solution
$\star$	Quality and Reliability, real or	New Telco services
	perceived ("as good as Skype" doesn't cut it)	Network Quality of Service (QoS) controls
*	Service Degradation/Disruption	QoS and Denial of Service controls
*	Call Disruption	VoIP Application Security
* . *	Call Spoofing	VoIP Application Security
**	Call Flooding/Spam	VoIP Application Security
*	IP Network level attacks	Firewall Security Controls
**	Eavesdropping/Call Monitoring	Encryption Services
*	Compliancy issues	Content Controls and Policy
*	Management Challenges	Managed Security

# VoIP Security - Risks and Consequences

Rank	Risk	Consequences	
1	Quality and Reliability, real or perceived ("as good as Skype" doesn't cut it)	Degraded quality, end-user resistance to service acceptance	
2	Service Degradation/Disruption	Degraded quality, total Service failure	
3	Call Disruption	Partial service failure, end-user dissatisfaction	
4	Call Spoofing	Phishing, legal liability	
5	Call Flooding/Spam	End-user dissatisfaction	
6	IP Network level attacks	Degraded quality, total Service failure	
7	Eavesdropping/Call Monitoring	Confidentiality issues	
8	Compliancy issues	Entry barriers, implementation complexity	
9	Management Challenges	Entry barriers, complexity	
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# Trends driving Communications Convergence

#### Complexity of Threat

- More types of communications
- Increasing sophistication of threats

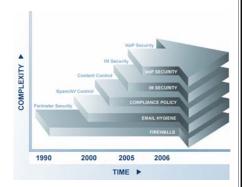
#### Content

- Shift from packet to content
- Not just inbound, now outbound content

#### Costs of Ownership

- Cost of acquisition
- Complexity and cost of operations
- Compliance Costs

#### **Diverse Threat Landscape**



\$4 Billion Market by 2010

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# Communications Convergence – The Problem

- Already have Firewall/Email security solutions
  - Yet NO security for IM, VoIP/SIP
  - Only URL blocking for web filtering
- Blended attacks are increasing
- Administrators spend hours creating<sup>1990</sup> policies, administering systems, generating reports and quarantine
- Disparate point products to solve the problem – doubling or tripling efforts
- Compliance needs to protect more than just email...

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# What the Analysts are Saying

"Organizations are increasingly buying messaging security solutions that **address multiple threats** and deliver **integrated antivirus, anti-spam, and content filtering** in a **single solution**. Security appliances are quickly becoming the platform of choice for integrating multiple messaging security technologies." IDC – March 2006 - Worldwide Secure Content Management 2006-2010 Forecast

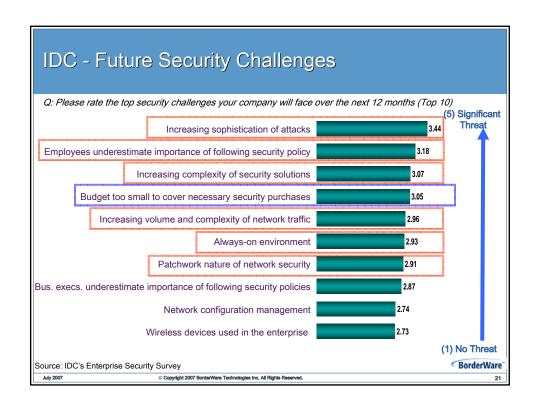
"As communications channels become more diverse, an effective content inspection policy needs to span not only e-mail but also Web mail, IM, blog postings, chat rooms and so on if it is to be comprehensive. Moreover, having separate policy and policy definitions, groups and directories is nonsensical...A single policy engine that can define communications policy across all modes of communications for groups and users is necessary..." Gartner 2006

"Content inspection, compliance, and retention policies must cut across all communications media rather than be silos in themselves. Organizations do not want to create a new Health Insurance Portability and Accountability Act (HIPAA) or ethical-wall policy for each communication medium." Gartner 2006

"The **key to scalability** is to provide a **component architecture** for enforcement but **with** a single management layer to apply policy" *Gartner 2006* 

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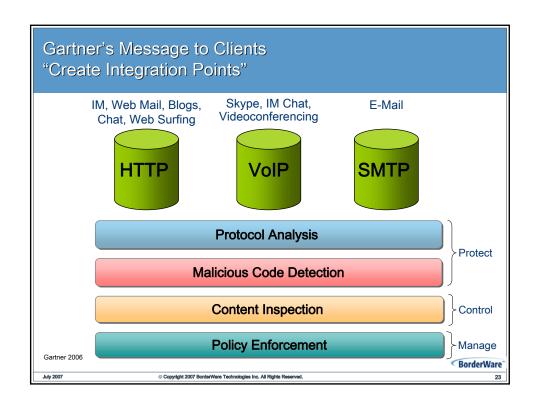
# It's Not Just Email Anymore....

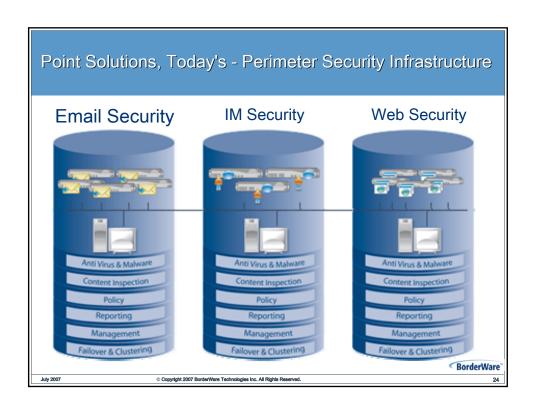
It's about securing all messaging applications....

- Email continues to be mission critical...300M in 2000; 800M in 2006
- Web Mail on the rise...150M in 2000; 850M in 2006
- Instant Messaging...175M+ business users in 2006
- Blogs and Wikis...0 to 50M in 3 years
- VoIP uptake increasing, taken to the network edge to reap benefits...

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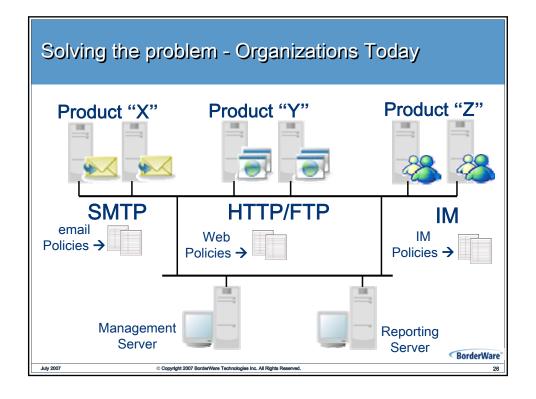


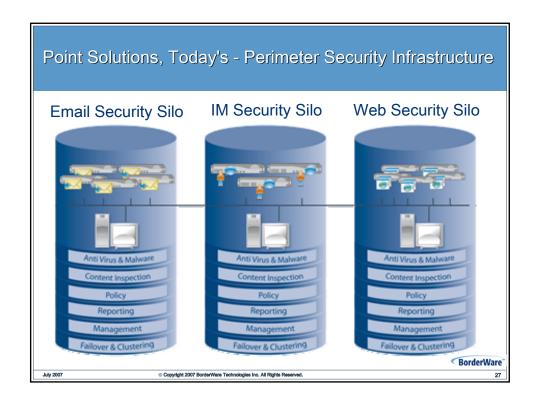


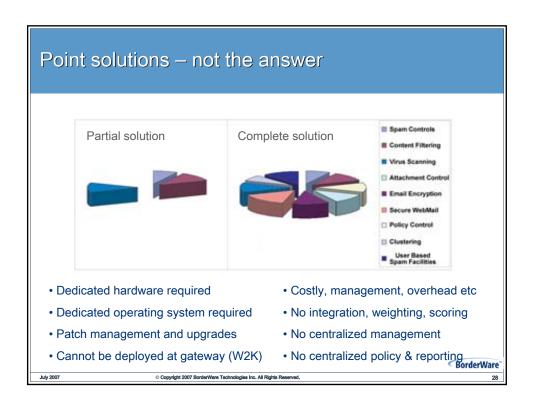
### Customer's Security Infrastructure...Fragmented

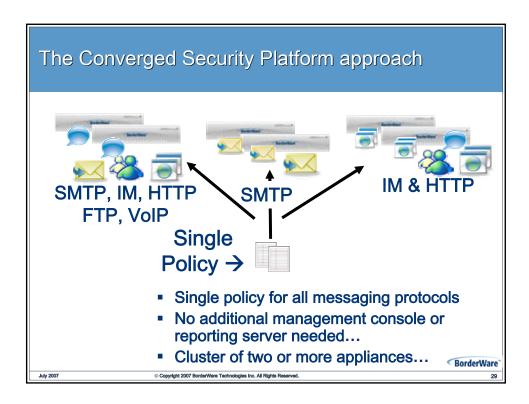
- Messaging security products exist as "Silos" creating gaps in policy and enforcement
- Threat experience is not leveraged across email, IM, web
- Silos increasingly consume IT capital and operational budgets
- High degree of employee expertise is required
- Scalability, availability, and redundancy are inefficient and expensive
- Lack of consolidated reporting drives inconsistent policy enforcement leading to financial risk

# Summary: Integration and consolidation enhances security and lowers TCO BorderWare July 2007 © Copyright 2007 BorderWise Technologies Inc. All Rights Reserved.







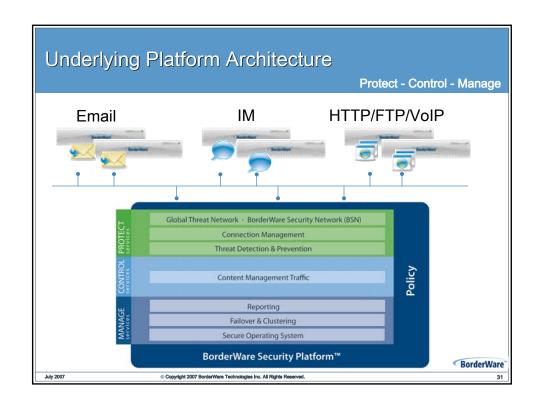


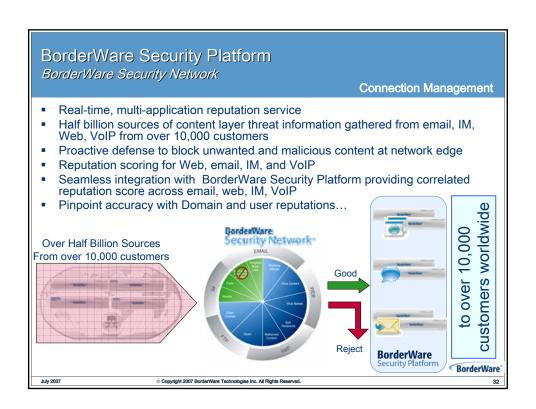
# Introducing, The BorderWare Security Platform *Elevator Pitch*

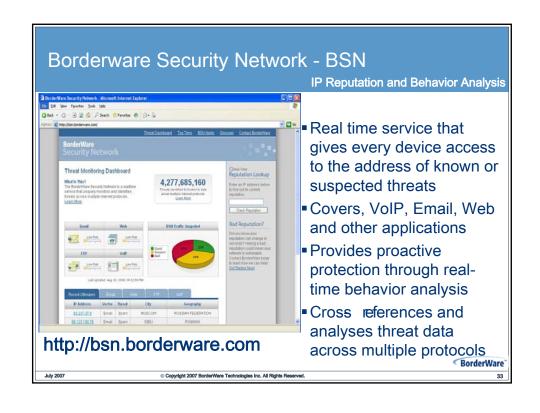
- What is it...
  - "Consolidated Messaging Security Platform delivering integrated protection, control, and management for email, web, IM and VoIP"
- Customer Core Value Proposition
   "Enhanced Messaging security that's simple to use, with high performance, and low TCO"
- What concerns does it address
  - Inbound/Outbound Security & Content Risk
  - Complexity or disparate systems
  - Costs of products, management, renewals etc...

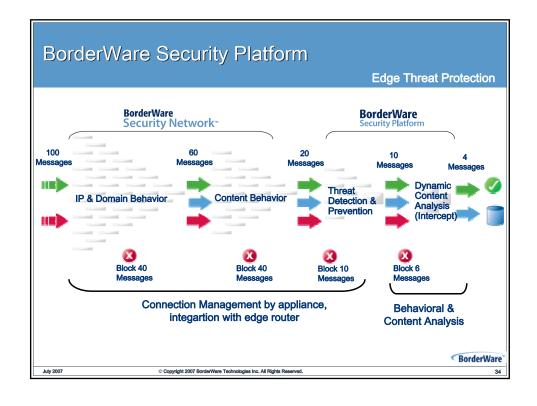
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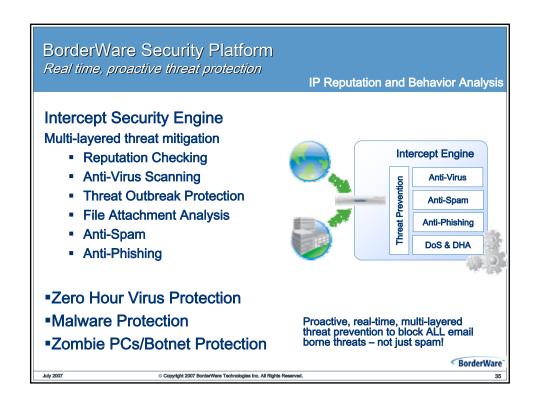
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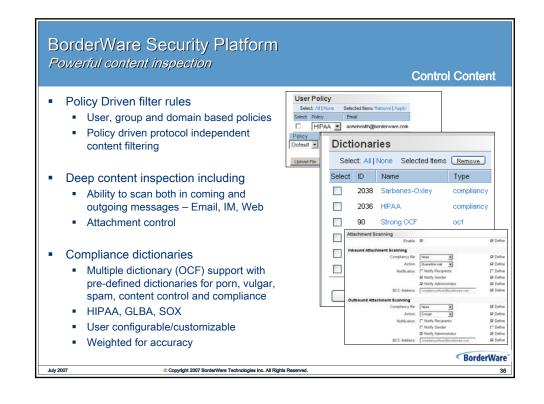




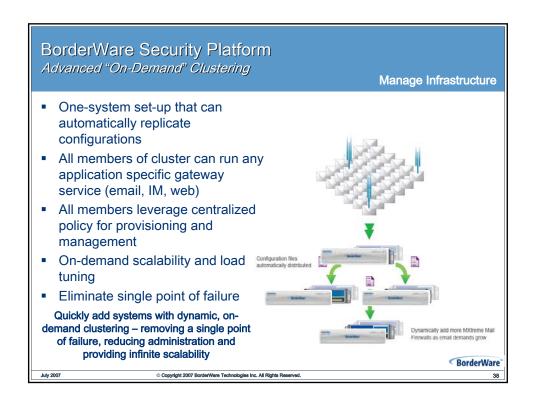


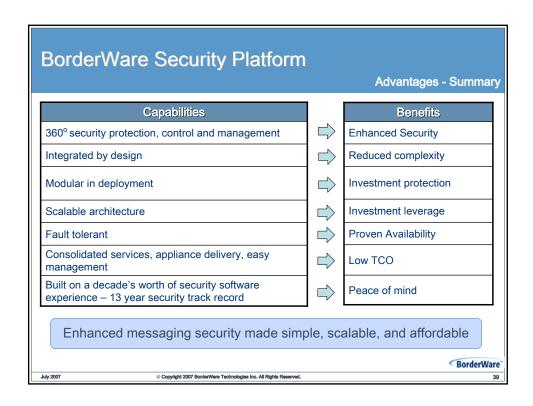






# BorderWare Security Platform Simple to use Policy Management Policy Editor Designed to simplify use and increase usability within minutes of deployment Reduce administration overhead Configure and manage all cross-protocol rules (Email, IM and Web) Consolidates a broad set of hygiene and content security capabilities into a single interface Administrators can implement: Domain, Group, and User policies Corporate, privacy, and compliance policies Corporate, privacy, and compliance policies





#### BorderWare Security Platform

**Competitive Positioning** 

- BorderWare has a VERY unique position with BSP
- Traditional email competitors Ironport, Secure Computing, Proofpoint, Barracuda
  - Point solutions for Web and IM
  - IM filter tied to HTTP protocol
  - Separate management appliance
  - No application level redundancy within cluster email box can't run the web/IM proxy
  - No outbound web filtering focused on inbound protection for AV, Phishing
- UTM Vendors Fortinet/Watchguard
  - Focused on multi-protocol for inbound threats only
  - Limited Anti SPAM functions on inbound
  - No outbound content control; weighted dictionaries; email encryption
  - Separate management appliance
  - No Application level redundancy special purpose boxes

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# BorderWare Security Platform

**Competitive Positioning** 

- Web Security Vendors Websense; WebRoot; BlueCoat
  - URL Filtering Websense, Webroot, BlueCoat
    - > Focus on URL filtering, data in motion and data at rest for web content
    - > No outbound content analysis BlueCoat & WebRoot
    - > No Threat prevention on inbound or AV
    - > Limited to no email functions
    - > Limited IM filtering to HTTP protocol
    - > No centralized management for multi applications
    - > Limited scalability
  - Content Management Content Management Vontue, Tablus, Vericept
    - > Fingerprint data in motion and data at rest across network
    - > Indexed at client and server level
    - > Monitor all protocols for reporting and real time blocking outbound
    - > No inbound threat management today moving in this direction
    - > Hard to deploy complex
    - > Not highly scalable

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#### Resources

- Independent white papers on:
  - HTTP threats
  - IM threats
  - VoIP threats
  - SMTP threats
  - Converged threats
- Independent verification, EAL, DSD, & ICSA
- Security track record 14 years <u>www.securityfocus.com</u>
- Gartner, IDC, IDG, Forrester, Aberdeen Group

Contact - dean@borderware.com

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# Conclusion – key takeaways

- Converged threats are already here, a solution is required now
- Threats are not limited to one protocol only
- Threats are not limited to inbound traffic only
- Disparate products are not the answer
- UTM's are not the answer
- Threats should be prevented at the gateway
- All gateway products should be deployed on a hardened and secure O/S with a proven track record
- Customers should look beyond the 'name' and adopt a multi vendor strategy

BorderWare addresses all of these threats...

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